- 6. (Amended) A method of treating a mammal with vaginal dryness by administering an effective vaginal dryness treatment amount of a compound of Formulas I, [II], III, or IV as described in [claims 1-5] Claim 1 or 4.
- 7. (Amended) A pharmaceutical composition comprising a compound of Formulas I, [II], III, or IV as described in [claims 1-5] Claim 1 or 4 together with a pharmaceutically acceptable carrier therefor in the form of a liquid or gel suspension.
- 8. (Amended) The method of claim 6 wherein the amount of compound of Formulas I, [II], III or IV administered to the mammal is sufficient to achieve a concentration on the cervical and/or vaginal mucosa/of from about 10<sup>-7</sup> moles/liter to about 10<sup>-1</sup> moles/liter.
- 9. (Amended) The method of claim 6 wherein the amount of compound of Formulas I, [II], III, or IV administered to the mammal is sufficient to achieve a daily dose of between 1 to 1000 milligrams.
- 10. (Amended) A method of treating a mammal with vulvar pain by administrating an effective vulvar pain treatment amount of a compound of Formulas I, [II], III, or IV as described in [claims 1-5] Claim 1 or 5.

#### REMARKS

#### **The Amendment**

The above amendments cancel Formula II from the claims.

Attorney's Docket No.: 03678.0028.US04

No new matter is added in any of the amendments. The Examiner is respectfully requested to enter all the amendments.

Respectfully submitted,

Date: October 9 2001

Albert P. Halluin (Reg. No. 25,227) Viola T. Kung (Reg. No. 41,131)

#### **HOWREY SIMON ARNOLD & WHITE, LLP**

301 Ravenswood Avenue Box No. 34 Menlo Park, CA 94025 (650) 463-8109



Attorney Docket No.: 03678.0028.US04

Application No.: 094531,851

### **CLEAN VERSION OF ALL PENDING CLAIMS**

1. A method of stimulating cervical and vaginal secretions in a mammal in needs thereof by administering an effective secretion stimulating amount of a compound of Formulas, III, or IV:

wherein:

 $X_1$ ,  $X_2$  and  $X_3$  are each independently either O or S;

R<sub>1</sub> is O, imido, methylene or dihalomethylene;

R2 is H or Br; preferably, R2 is H; or

# Formula III

Attorney's Docket No.: 03678.0028.US04

wherein:

 $R_1$ ,  $X_1$ ,  $X_2$  and  $X_3$  are defined as in Formula I;

 $R_5$  and  $R_6$  are H while  $R_7$  is nothing and there is a double bond between N-3 and C-4 (cytosine), or

 $R_5$ ,  $R_6$  and  $R_7$  taken together are -CH=CH-, forming a ring from N-3 to N-4 with a double bond between N-4 and C-4 (3,N<sup>4</sup>-ethenocytosine) optionally substituted at the 4- or 5-position of the etheno ring; or

## Formula IV

wherein:

 $R_1$ ,  $X_1$ ,  $X_2$ , and  $X_3$  are defined as in Formula I;

 $R_3$  and  $R_4$  are H while  $R_2$  is nothing and there is a double bond between N-1 and C-6 (adenine), or

 $R_3$  and  $R_4$  are H while  $R_2$  is O and there is a double bond between N-1 and C-6 (adenine 1-oxide), or

Attorney's Docket No.: 03678.0028.US04

R<sub>3</sub>, R<sub>4</sub>, and R<sub>2</sub> taken together are -CH=CH-, forming a ring from N-6 to N-1 with a double bond between N-6 and C-6 (l,N6-ethenoadenine); or pharmaceutically acceptable esters or salts thereof.

- 4. The method of claim 1 wherein R<sub>2</sub> of Formula I is H.
- 6. A method of treating a mammal with vaginal dryness by administering an effective vaginal dryness treatment amount of a compound of Formulas I, III, or IV as described in Claim 1 or 4.
- 7. A pharmaceutical composition comprising a compound of Formulas I, III, or IV as described in Claim 1 or 4 together with a pharmaceutically acceptable carrier therefor in the form of a liquid or gel suspension.
- 8. The method of claim 6 wherein the amount of compound of Formulas I, III or IV administered to the mammal is sufficient to achieve a concentration on the cervical and/or vaginal mucosa of from about 10<sup>-7</sup> moles/liter to about 10<sup>-1</sup> moles/liter.
- 9. The method of claim 6 wherein the amount of compound of Formulas I, III, or IV administered to the mammal is sufficient to achieve a daily dose of between 1 to 1000 milligrams.
- 10. A method of treating a mammal with vulvar pain by administrating an effective vulvar pain treatment amount of a compound of Formulas I, III, or IV as described in Claim 1 or 5.